Application No.: 10/034,073 Amendment Dated: December 5, 2003

Reply to Office action of: September 5, 2003

**AMENDMENTS TO THE CLAIMS** 

The following listing of claims will replace all prior versions, and listings, of

claims in the application:

**Listing of Claims:** 

1. (Currently Amended) A grating having a groove cross section shape

other than a laminar shape and a groove bottom part shaped as a flat form, wherein

said groove cross section shape is a half sinusoidal wave and said groove bottom

part is shaped as a flat form.

2. (Original) The grating as claimed in claim 1, wherein a duty ratio of a

groove width to a groove cycle of the grating is 0.5.

3. (Currently Amended) The grating as claimed in claim 1, wherein the

groove cross section shape is a sinusoidal wave or a sawtooth A grating having a

groove cross section shape and a groove bottom part, wherein said groove cross

section shape is a half sawtooth wave and said groove bottom part is shaped as a

flat form.

4. (Withdrawn) A negative grating manufactured by transfer from a grating

having a groove cross section shape other than a laminar shape and a groove

bottom part shaped as a flat form.

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5. (Currently Amended) A replica grating manufactured by transfer from a

grating having a groove cross section shape other than a laminar shape and a

groove bottom part shaped as a flat form, wherein said groove cross section shape

is selected from the group consisting of a half sinusoidal wave and a half sawtooth

wave.

6. (Withdrawn) A method of manufacturing a negative grating, said

comprising:

preparing an original grating having a groove cross section shape other than

a laminar shape and a groove bottom part shaped as a flat form;

bonding a negative substrate onto the original grating with an adhesive; and

paring the negative substrate from the original grating after the adhesive is

hardened.

7. (Withdrawn) A method of manufacturing a replica grating, said

comprising:

preparing a negative grating manufactured from an original grating having a

groove cross section shape other than a laminar shape and a groove top part

shaped as a flat form;

bonding a replica substrate onto the negative grating with an adhesive; and

paring the replica substrate from the negative grating after the adhesive is

hardened.

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8. (New) The grating as claimed in claim 3, wherein a duty ratio of a groove width to a groove cycle of the grating is 0.5.

9. (New) The replica grating as claimed in claim 5, wherein a duty ratio of a groove width to a groove cycle of the grating is 0.5.